9007/022 Incoming

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K

Savage Services Corporation
Coal & Power Services Group
2025 East 5000 South
Box 1001
Price LIT 84501

(435) 637-5664 Fax (435) 637-3418

Mr. Steve Christensen
Permit Supervisor
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Attn: April Abate

Re: Addition of Ground Water Monitoring Well S-3-GW Savage Service Corporation Savage Coal Terminal C/007/0022

Dear Mr. Christensen:

Enclosed are 4 copies of an amendment to the Savage Coal Terminal MRP. This amendment is to show the addition of a new ground water monitoring well S-3-GW. Two holes were drilled in June 2012, with the intent of at least one replacing the dry well S-1-GW. Both new holes were also dry; however, it was decided to develop the second hole as a monitoring well in the event it may show ground water in the future.

An updated Plate 7-1 showing the location of the new well is enclosed, along with required C1/C2 Forms. If you have any questions, or need additional information, please let me know.

Sincerely,

Garth Nielsen

General Manager

RECEIVED

JUL 16 2012

Cc: Dan Guy File

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change New Permit Renewal Exploration Bond Release Transfer Transfer					
Permittee:	Savage Services Corporation		Г		
Mine:	Savage Coal Terminal	Permi	t Number: [C/007/0022	
Title:	Addition of Ground Water Monitoring Well				
Description	, Include reason for application and timing required to implement:				
Addition of a	ground water monitoring well.				
Yes No Yes	1. Change in the size of the Permit Area? Acres: 2. Is the application submitted as a result of a Division Or 3. Does the application include operations outside a previous 4. Does the application include operations in hydrologic by 5. Does the application result from cancellation, reduction 6. Does the application require or include public notice pure 7. Does the application require or include ownership, contain 8. Is proposed activity within 100 feet of a public road or 9. Is the application submitted as a result of a Violation? 10. Is the application submitted as a result of other laws or Explain: 11. Does the application affect the surface landowner or ch	Disturbed Area: der? DO# ously identified Cumpasins other than as cumpasins other than as cumpasins other than as cumpasins of increase of insural ablication? trol, right-of-entry, or cemetery or 300 feet NOV # regulations or policies ange the post mining	ulative Hydrolourrently approvence or reclamate compliance in of an occupied as?	ogic Impact Area? ed? tion bond? formation? dwelling?	
Yes X No Yes X No Yes X No Yes X No X Yes X No X Yes X No X Yes X No Please attach	No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2) 13. Does the application require or include collection and reporting of any baseline information? 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area? 15. Does the application require or include soil removal, storage or placement? 16. Does the application require or include vegetation monitoring, removal or revegetation activities? 17. Does the application require or include construction, modification, or removal of surface facilities? 18. Does the application require or include water monitoring, sediment or drainage control measures?				
I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein Garth Nielsen General Manager Position Date Signature (Right-click above choose certify then have notary sign below) Subscribed and sworm to before me this day of Notary Public Notary Public Tommission Expires: Commission Number: Address: State: St					
For Office Use	Only:	Assigned Tracking Number:	RI	y Oil, Gas & Mining	
			JU	L 1 6 2012	
			DIV. OF	OIL, GAS & MINING	

APPLICATION FOR COAL PERMIT PROCESSING Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee:	Savage Services Corporation			C/00=/000		
Mine:	AND DESCRIPTION OF THE PERSON NAMED IN	Savage Coal Terminal Po			C/007/0022	
Title:	Addition of	Ground Wate	ound Water Monitoring Well			
application. of contents, s	Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.					
☐ Add □	Replace	Remove	DESCRIPTION OF MAP, TEXT, OR MATERIA Chapter 7 - Pages 91, 92, 93, 134 and 135.	T TO BE C	HANGED	
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	Replace	Toponomial Control	Plate 7-1.			
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Any other sp Mining and			on required for insertion of this proposal into the	Received b	y Oil, Gas & Mining	
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				ICI	V. OF OIL, GAS & MINING	

- 731.112. For the purposes of SURFACE COAL MINING AND RECLAMATION ACTIVITIES ground-water quantity will be protected by handling earth materials and runoff in a manner that will restore approximate premining recharge capacity of the reclaimed area as a whole, excluding coal mine waste disposal areas and fills, so as to allow the movement of water to the ground-water system.
- 731.120. Surface-Water Protection. In order to protect the hydrologic balance, coal mining and reclamation operations will be conducted according to the plan approved under R645-301-731 and the following:
- 731.121. Surface-water quality will be protected by handling earth materials, ground-water discharges and runoff in a manner that minimizes the formation of acidic or toxic drainage; prevents, to the extent possible using the best technology currently available, additional contributions of suspended solids to streamflow outside the permit area; and, otherwise prevent water pollution. If drainage control, restabilization and revegetation of disturbed areas, diversion of runoff, mulching or other reclamation and remedial practices are not adequate to meet the requirements of R645-301-731.100 through R645-301-731.522, R645-301-731.800 and R645-301-751, the operator will use and maintain the necessary water treatment facilities or water quality controls; and
- 731.122. Surface-water quantity and flow rates will be protected by handling earth materials and runoff in accordance with the steps outlined in the plan approved under R645-301-731.
- 731.200. There are presently 2 surface water monitoring points and 4 groundwater monitoring stations at the Savage Coal Terminal. One monitoring well (S-1-GW) had not provided any information; so 2 additional holes were drilled in June 2012. Both holes were dry; however, one was developed as a new well (S-3-GW). S-1-GW will also remain and continue to be monitored. The following is a list of existing water monitoring stations, along with sample frequency:

WATER MONITORING PROGRAM

Station	Location	Туре	Frequency	Flow Device	Results To	Remarks
CV-1-W	Pumphouse	French Drain	Bi-annually	Time/Volume or Depth	DOGM	Sample during 2 nd and 4 th Quarters.
CV-14-W	N.E. Corner Property	Ditch	Bi-annually	Time/Volume	DOGM	Sample during 2 nd and 4 th Quarters.
CV-15-W	Sediment Pond Discharge	Pond Outlet	Monthly	Hand-Held Time/Volume	E.P.A., DOGM, Utah Health Dept.	Monitored per UPDES Permit
S-1-GW	South of French Drain	Ground Water Monitoring Well	Bi-annually	Grab Sample Depth	DOGM	Quarterly - 2 years Bi- Annual - After
S-2-GW	South of Pond 5	Ground Water Monitoring Well	Bi-annually	Grab Sample Depth	DOGM	Quarterly - 2 years Bi- Annual - After
S-3-GW	East of Pumphouse	Ground Water Monitoring Well	Quarterly	Grab Sample Depth	DOGM	Quarterly - 2 years Bi- Annual - After

Note: In addition to the above regular water monitoring schedule, baseline sampling will be completed on all stations at least once each 5 years. Baseline samples were taken in the 4th Quarter of 2009 and are scheduled to be taken again in the 4th Quarter of 2013. Baseline samples are analyzed per the parameter list on Table 7-17.

Water monitoring will include parameters on Table 7-17. Results will be submitted to the Division within 60 days following the end of each sampling cycle.

- 731.210. Ground-Water Monitoring. Ground-water monitoring will be conducted according to the plan approved under R645-301-731.200 and the following:
- 731.211. See 731.200 and Table 7-17.
- 731.212. Ground-water will be monitored and data will be submitted at least every six months for the French Drain and every quarter for the ground water monitoring wells S-1-GW and S-3-GW. Monitoring submittals will include analytical results from each sample taken during the approved reporting period. When the analysis of any ground-water sample indicates noncompliance with the permit conditions, then the operator will promptly notify the Division and immediately take the actions provided for in R645-300-145 and R645-301-731.
- 732.213. N/A Not requested.
- 731.214. Groundwater monitoring will continue through operation; however, since the French Drain and monitoring wells will be removed during reclamation further monitoring of those sites will not be possible.

746.221	The refuse pile is considered active and still under construction (and/or removal as discussed in Chapter 5); therefore, slopes and diversions have not been revegetated at this time.
746.222	N/A - No impoundments are planned on the refuse pile.
746.300	N/A - No impounding structures are constructed of coal mine waste.
746.400	N/A - There are no plans to return coal processing waste abandoned underground workings.
747	Non-coal mine waste is collected, stored and disposed of as described in Section 528.330.
747.100	See Section 528.330.
747.200	See Section 528.330.
747.300	See Section 528.330.
748	All decommissioned water monitoring wells have been plugged and sealed as approved by the Division. Existing groundwater monitoring wells S-1-GW, S-2-GW and S-3-GW will be reclaimed when no longer required. The well pipe will be cut off at least 6" below existing ground level. The well pipe will then be backfilled with sand or other fine native material to within 12" of the top of the pipe. The upper 12" will then be filled with concrete and the site backfilled to existing ground level. The 2 remaining water monitoring wells, French Drain collection sump and river pump well are shallow, water systems. They will be reclaimed according to the approved plan as described here and in Section 540 of this permit.
750	All coal mining and reclamation operations will be conducted to minimize disturbance to the hydrologic balance within the permit and adjacent areas, to prevent material damage to the hydrologic balance outside the permit area and support approved postmining land uses in accordance with the terms and conditions of the approved permit and the performance

standards of R645-301 and R645-302.

751	Discharges or water from areas disturbed by coal processing and reclamation operations will be made in compliance with all Utah and federal water quality laws and regulations and with effluent limitations for coal mining promulgated by the U.S. Environmental Protection Agency set forth in 40 CFR Part 434. (See approved UPDES Permit).
752	Sediment control measures are located, maintained, constructed and will be reclaimed according to plans and designs given under R645-301-312.240, R645-301-732, R645-301-742 and R645-301-760.
753	See Section 741.
754	See Section 528.
755	See Section 748.
760	Reclamation is discussed in Section 540 of this M.R.P.
761	Reclamation will be performed as per Sections 540 and 550
762	All roads will be removed and reclaimed during final reclamation.
763	Siltation structures will remain in place as described in Section 540, until removal by the Division.
764	See Section 540 for reclamation timetable.
765	See Section 540 and 748 for details on sealing of wells.

In 2009, 2 new ground monitoring wells were installed as required by the Division. These wells were designated S-1-GW and S-2-GW, and were placed near the northeast corner of the site and below (east) of the refuse pile respectively. A new well (S-3-GW) was added east of the pumphouse in June 2012. Although originally dry, it is hoped this well will provide some additional data in the future.

The measurements in the observation wells as recorded in Table 7-1 of Chapter 7 indicate that there is no regional ground water table at the site, although a perched water table exists at some locations on the site. The aerial extent of this perched water table could not be precisely determined from existing monitoring well network.

As previously mentioned, the original wells were monitored for 18 years at this site. When the wells were finally approved for removal, 5 of the 8 remaining wells had been dry for more than 5 years, 2 wells showed some ground water which appeared to be recharged by the irrigation canal south of the site. Water from one of these wells is also evident as ground water in Sediment Pond No. 5. The last remaining well was in an irrigated field east of the site, on land not controlled by Savage Services Corporation.

Of the 2 new wells installed in 2009, one remained dry and has been replaced. The other has provided consistent data.

When the facilities were first constructed in 1977 - 1978, ground water was present throughout the site, ranging in depths from 0' to 20' from the surface. A French Drain system was placed along the western and northern edge of the property to intercept a majority of the ground water, which appears to be recharged primarily by the irrigation

